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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/005,537	12/07/2001	Byoung G. Min	1526.01	9198	
29338	7590 05/05/2004		EXAMINER		
	UTTON LLP	MANUEL, G	MANUEL, GEORGE C		
3255 WILSHIRE BLVD SUITE 1110			ART UNIT	PAPER NUMBER	
LOS ANGELES, CA 90010			3762	U	
			DATE MAILED: 05/05/2004	- (

Please find below and/or attached an Office communication concerning this application or proceeding.

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— <i>A</i>		Application	on No.	Applicant(s)		
Office Action Summary		10/005,53	7	MIN-ET AL.	•	
		Examin r	-	Art Unit		
		George M	anuel	3762		
 Period for	The MAILING DATE of this commun	nication appears on the	cover sheet with the c	orrespondence addre	ss	
THE M Extensi after SI - If the po - If NO p Failure Any rep	RTENED STATUTORY PERIOD F AILING DATE OF THIS COMMUN ons of time may be available under the provisions X (6) MONTHS from the mailing date of this come eriod for reply specified above is less than thirty (3 eriod for reply is specified above, the maximum s' to reply within the set or extended period for reply oly received by the Office later than three months patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In no eve munication. 30) days, a reply within the statu tatutory period will apply and wil y will, by statute, cause the appl	int, however, may a reply be tim story minimum of thirty (30) days Il expire SIX (6) MONTHS from ication to become ABANDONEI	nely filed s will be considered timely. the mailing date of this comm D (35 U.S.C. § 133).	unication.	
Status						
1)⊠ F	Responsive to communication(s) file	ed on <u>07 December 20</u>	<u>)01</u> .			
2a)□ T	his action is FINAL .	2b)⊠ This action is n	on-final.	•		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the me						
С	losed in accordance with the pract	ice under Ex parte Qu	ayle, 1935 C.D. 11, 45	53 O.G. 213.	1	
Dispositio	n of Claims					
4: 5)□ C 6)⊠ C 7)⊠ C	Claim(s) <u>1-33</u> is/are pending in the a) Of the above claim(s) is/a Claim(s) is/are allowed. Claim(s) <u>1-10,15-23 and 33</u> is/are reclaim(s) <u>11-14 and 24-32</u> is/are object to restrictions.	ejected.		• •		
Applicatio	n Papers			÷		
10)□ T A F	he specification is objected to by the drawing(s) filed on is/are applicant may not request that any objected the cath or declaration is objected the specific process.	e: a) accepted or b) ection to the drawing(s) bg the correction is require	e held in abeyance. See ed if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR		
Priority un	ider 35 U.S.C. § 119					
a)⊠ 1 2 3	cknowledgment is made of a claim All b) Some * c) None of: Certified copies of the priority Copies of the certified copies application from the Internations the attached detailed Office actions.	documents have bee documents have bee of the priority documents have beconal Bureau (PCT Rule	n received. n received in Applicati ents have been receive e 17.2(a)).	ion No ed in this National Sta	age	
2) Notice 3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (lation Disclosure Statement(s) (PTO-1449 on No(s)/Mail Date 2.		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate	i2)	

Application/Control Number: 10/005,537

Art Unit: 3762

DETAILED ACTION

Claim Rejections - 35 USC § 112

Claim 15 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 15, the angular reciprocal rotation lacks antecedent basis.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1-7, 10, 16-20 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Parrott et al '289.

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Parrott et al disclose a housing comprising pump header 10 and first and second tubes 30 and 32. Roller 82 provides an alternating member for alternately squeezing the tubes see the description for Fig. 1.

Regarding claim 7, it is well known that polyvinyl chloride is a polymer.

Regarding claim 20, due to the construction the concentric tubing, the device of Parrott et al shows the input and output ports passing through both the top and bottom sides of the housing.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

Claims 8, 9, 21-23 and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Parrott et al '289.

Regarding claims 8 and 9, it is well known to substitute silicon tubing for polyvinyl chloride tubing because both types are bio-compatible and readily available.

Regarding claims 21-23, Parrott et al shows all of the claimed features except for an oxygenator connected to the output port of the first tube and the input port of the second tube. One of ordinary skill in the art would have found it obvious to connect an

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oxygentor to the output port of the first tube because Parrott et al teach: "The blood sucked from the left side of the heart is saved and returned to the major circuit for oxygenation and eventual return to the patient.... From the cardiotomy reservoir 22, the blood 28 is returned to the patient in conventional fashion. Typically, this involves filtering the blood 28, oxygenating the blood 28, and pumping the blood 28 back into the

patient." See col. 1, lines 34-45 and col. 6, line 56-60.

Regarding claim 33, one of ordinary skill in the art would have found it obvious to connect the pump header 10 input to the main vein and the pump output to the aorta because this is where a normal lung function would provide oxygen and since the device is intended to be adding oxygen lost by a lack of lung function, this type of connection would compensate for the loss.

Allowable Subject Matter

Claims 11-14 and 24-32 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Manuel whose telephone number is (703) 308-2118.

George Manuel Primary Examiner Art Unit: 3762